

Learning about What Plants can Thrive in a Changing Climate by Observations

Look around and see what plants reveal about the effects of climate change

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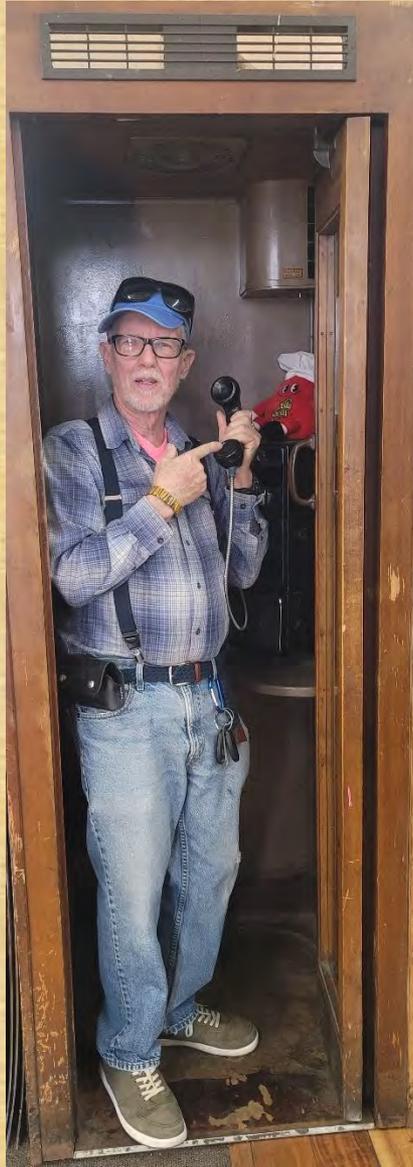
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“Turn off your phone ringers please.”



25 March 2026

LIVING AND GARDENING IN THE DESERT

- **DESERT-**

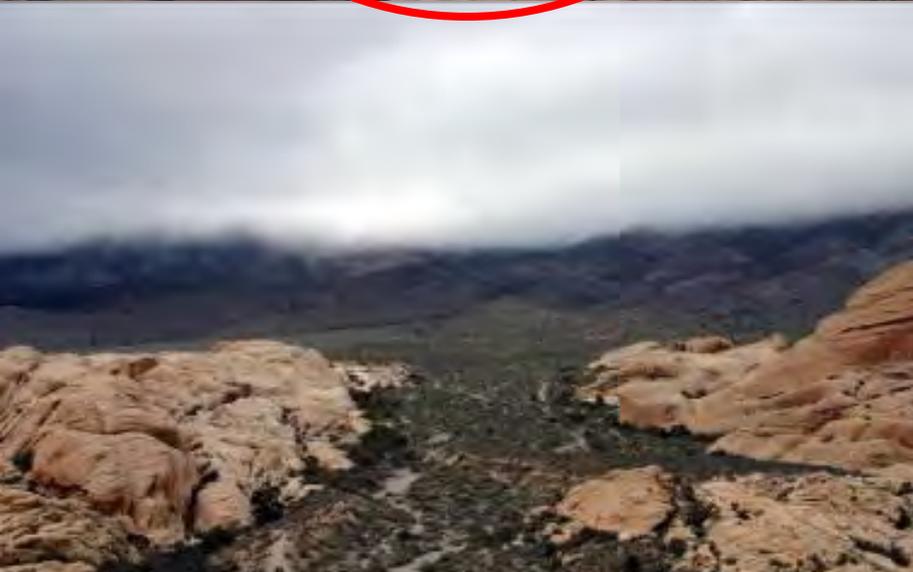
- LOW PRECIPITATION
- EVAPORATION EXCEEDS THE AMOUNT OF WATER THAT ENTERS THE SOIL
- TEMPERATURE- EXTREME HIGHS AND LOWS
- DRY WINDS- REMOVES MOISTURE FROM PLANTS
- AND GETTING HOTTER

IT IS A HARSH CLIMATE

**MANY DESERT PLANTS
LITERALLY LIVE ON THE
EDGE**



IT IS A HARSH CLIMATE





HAY, DON'T GET ME WRONG. WE JUST LOVE LIVING IN THE SOUTHWEST. IT'S JUST ALL THIS DESERT STUFF THAT

25 March 2020

THE WIFE AND I CAN'T STAND.

Taken from the Tucson News

WHY NATIVE AND NATIVE LIKE PLANTS AND GARDENS?

- By surrounding ourselves with landscapes that reflect the true nature of our region, we embrace the unique character that makes the area such a wonderful place to live. The native garden is tended nature in miniature. It's not about the plants. It's about generosity. It's about giving back to the land and giving oneself the pleasure and satisfaction of loving, getting involved, and tending a garden modeled after the natural beauty of the region. It's about giving to everyone that sees and enjoys it the opportunity to experience the authentic natural area you live in... (adapted from the Tree of Life Nursery web page MIKE EVANS)

**WATER IS — AND WILL
CONTINUE TO BE — ONE OF
THE MOST PRESSING
CHALLENGES WORLDWIDE."**



Considerations for Plants in the Future:

- 1. Native plants may not survive future climate changes. Just because a plant is native to an area doesn't guarantee its survival under future climate shifts. Changing temperatures, precipitation patterns, and other environmental factors may challenge even the most climate-adapted plants.

Considerations for Plants in the Future:

- 2. Look both to the south and north of where you live. Plants from the southern regions, like northern Mexico, may flourish as warmer temperatures spread. However, there may also be exceptions, such as unexpected cold extremes in some winters. For example, Texas has seen fluctuations in temperature that impact plant survival both native and native like plants.

Considerations for Plants in the Future:

- 3. Remember that current climates are not fixed; regions have had different climates in the past. Our local climates today are a snapshot in time and have fluctuated historically. Plants that thrived in past climates may still offer valuable indications of what can survive under future conditions.

LOAD UP THE TRUCK AND SEE WHAT YOU CAN FIND

RANCH RD

1000



25 March 2026

12

DESERT PLANTS ARE TOUGH!



25 March 2026

DESERT PLANTS ARE TOUGH !



DESERT PLANTS ARE TOUGH !



25 March 2026

DESERT PLANTS ARE TOUGH !





DESERT PLANTS ARE TOUGH !



DESERT PLANTS ARE TOUGH !



DESERT PLANTS ARE TOUGH !





25 March 2026



WHAT IS WRONG WITH MY PINE TREE?



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THESE PALMS HAVE BEEN HERE OVER 30 YEARS



Green fountain Grass



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27

Wild in Tucson



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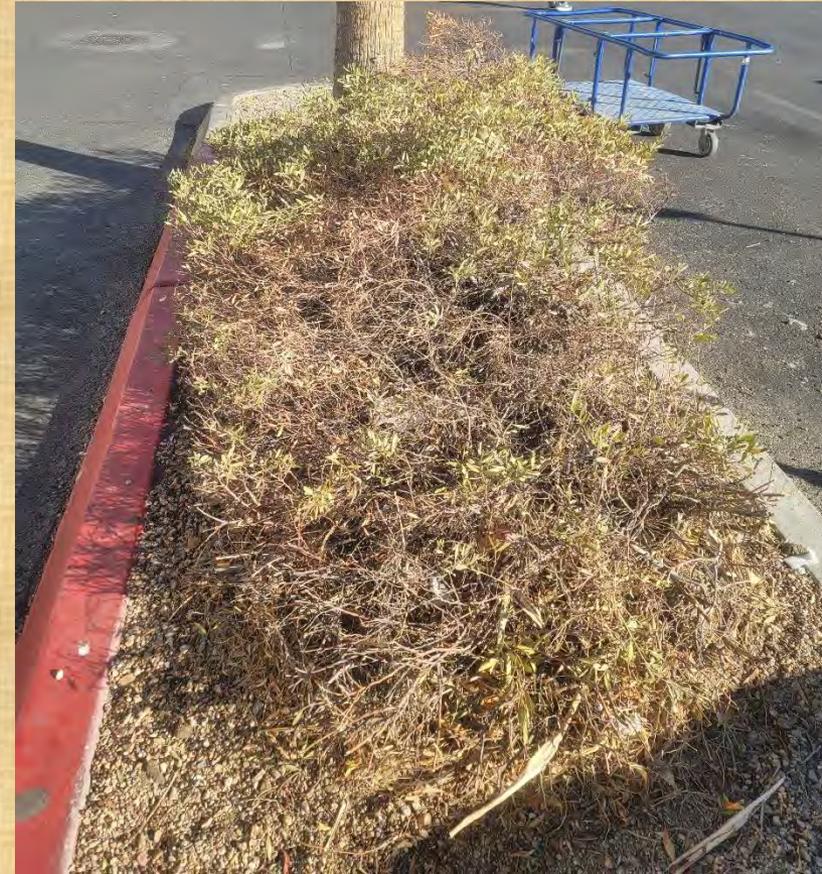
28





Desert Carpet Acacia

Acacia redolens



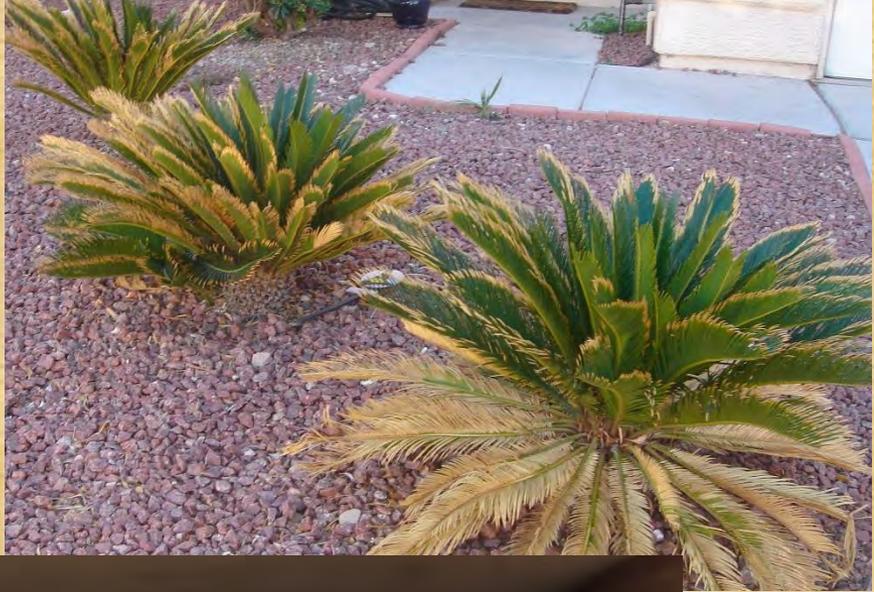
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**Look at Other plants in the bed it
maybe just lack of water??**



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32



WINE GRAPES



DESERT PLANTS ARE TOUGH !



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DESERT PLANTS ARE TOUGH!

25 March 2026

36

DESERT PLANTS ARE TOUGH!

25 March 2026

37

DESERT PLANTS ARE TOUGH !



25 March 2026



WHY ARE NATIVE AND NATIVE LIKE PLANTS NOT USED MORE?

- HARD TO FIND IN MANY NURSERIES
- DIFFICULT TO PROPAGATE
- LOOK POORLY IN CONTAINERS AT THE NURSERY
- COST MORE
- TAKE LONGER TO ESTABLISH IN THE LANDSCAPE, NO INSTANT LOOK
- MANY PEOPLE THINK OF THEM AS WEEDS







NATIVE DESERT PLANTS AND ADAPTIVE PLANT ARE NOT ONLY PRACTICAL BUT BEAUTIFUL



**LET NATURAL AREAS
INSPIRE YOUR
LANDSCAPING**

NATIVE PLANTS



25 March 2026

NATIVE PLANTS



NATIVE PLANTS



APR 21 2003

NATIVE PLANTS



NATIVE PLANTS IN THE LANDSCAPE









Plant Small Trees or Large Growing Shrubs for Street Trees. Buy Smaller containers, such as 5 or 10 Gal.



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51

NATIVES ARE TOUGH





25 March 2026



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**THIS LANDSCAPE IS DROUGHT
TOLERANT AND MOSTLY NATIVE PLANTS
INCLUDING AGAVIES, JOSHUA TREES AND
HESPERALOES AND WASHINGTONIA
PALMS**





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56

A SIMPLE DROUGHT TOLLERENT LANDSCAPE WITH ABOUT 5 DIFFERENT PLANTS



A SIMPLE DROUGHT TOLLERENT LANDSCAPE WITH ABOUT 5 DIFFERENT PLANTS



25 March 20

58

LET'S LOOK AT A FEW PLANTS.





**SOME NATIVES AND NATIVE
LIKE PLANTS TO TRY**

CERCIS CANDENSIS



25 March 2026

CERCIS



Chilopsis linearis

Desert Willow



Chilopsis linearis

Desert Willow



Many Cultivars



**Art's
Seedless™**



**Warren
Jones™**



**Lucretia
Hamilton™**



Many Cultivars



RIO SALADO



**DESERT
DIVA**



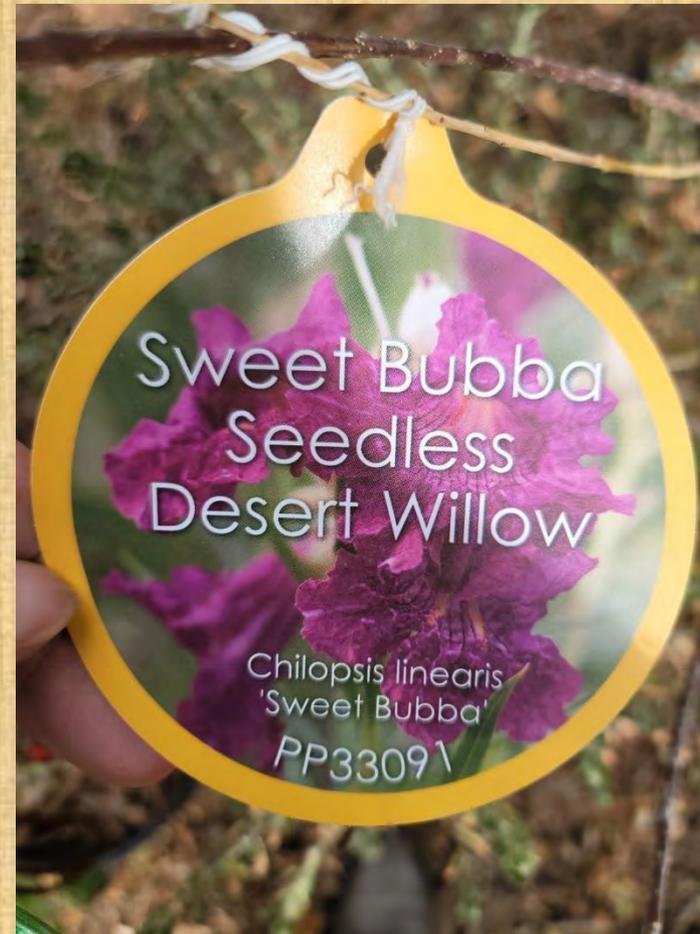
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Many Cultivars



**SWEET
BUBBA™**



BUBBA™



NERIUM OLEANDER Growing in a Vacant Lot no Irrigation Las Vegas NV.



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Ilex vomitoria



Ilex vomitoria



Osage Orange

Maclura Pomifera

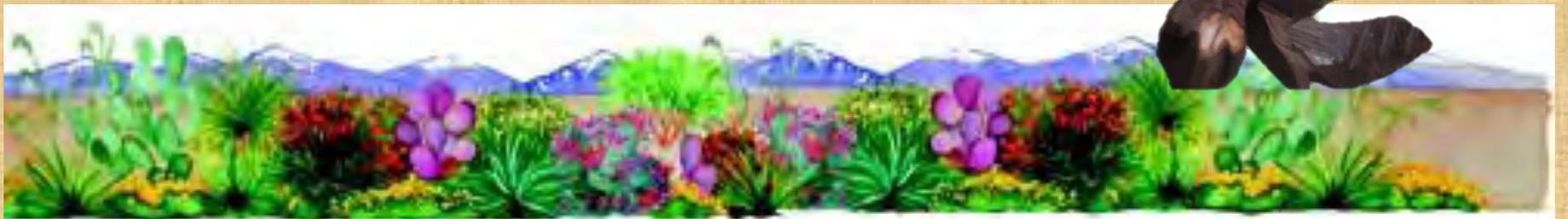


About 15 years old

OLNEYA TESOTA IRONWOOD



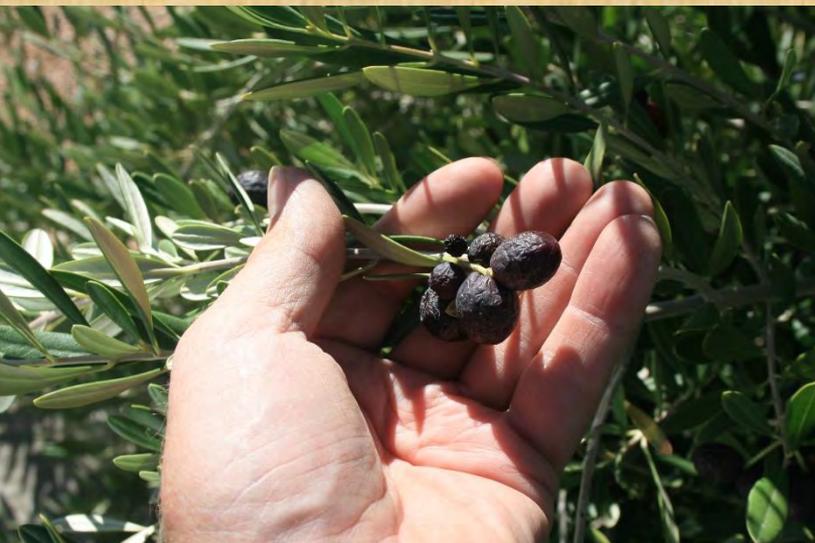
OLNEYA TESOTA IRONWOOD SCULPTURES



OLIVE TREE



The Science And Nature Page 3,00 Year Old Olive Tree



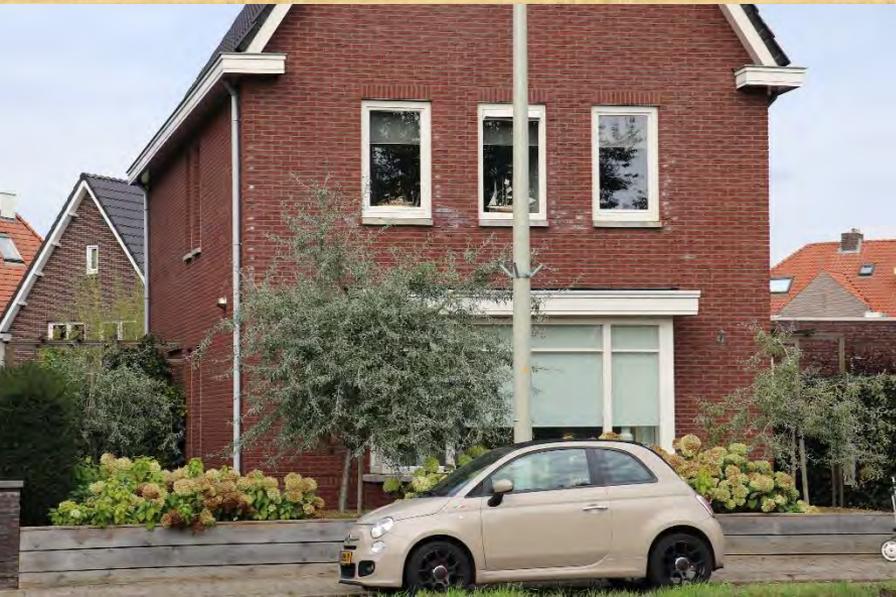
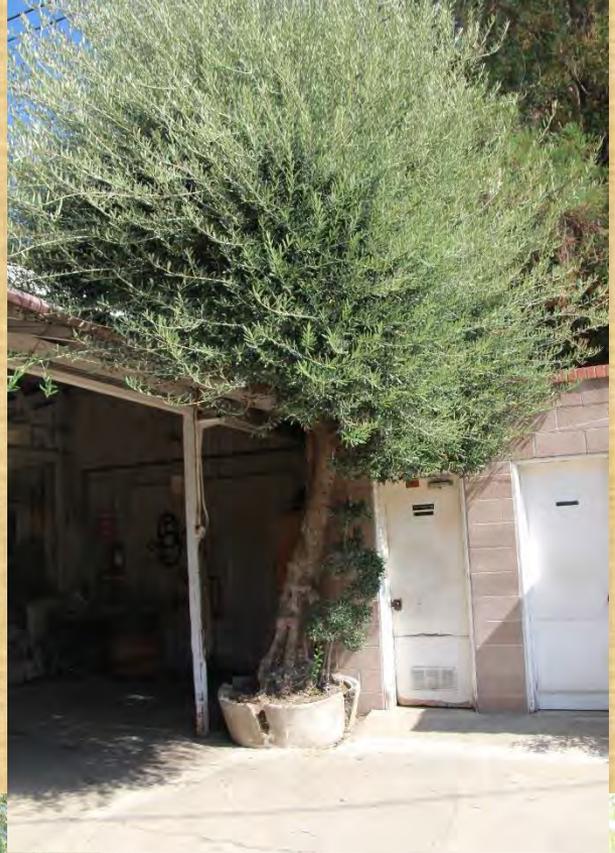
**600-Year-Old
Olive Tree**



25 March 2026



OLIVE TREE



SOPHORA SECUNDIFLORA

TEXAS MOUNTAIN LAUREL



SOPHORA SECUNDIFLORA

TEXAS MOUNTAIN LAUREL





A VERY OLD TREE

25 March 2026





LONE STAR
Candy Bar

ICE CREAM

Hand Made

VAUQUELINIA CORYUMBOSA

NUEVO LEON OR WEEPING ROSEWOOD



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XANTHOCERAS SORBIFOLIUM



Ziziphus jujube

Jujube tree



Pictures
from the
internet



PSOROTHAMNUS FREMONTII
NEVADA NATIVE



ENCELIA FARINOSA BRITTLEBUSH



FORESTIERA NEOMEXICANA NATIVE PRIVET



25 March 2026



LEUCOPHYLLUM

TEXAS RANGERS OR SAGES

LEUCOPHYLLUM

'LYNN'S LEGACY'

LEUCOPHYLLUM

'GRAY TEXAS SAGE'



LEUCOPHYLLUM

**'THUNDER
CLOUD'**



**LEUCOPHYLLUM
'CONVENT'**





LARREA TRIDENTATA

CREOSOTE BUSH



**14 YEARS IN
THE
LANDSCAPE
WITH LITTLE
OR NO
IRRIGATION**



LARREA TRIDENTATA
CREOSOTE BUSH



**20 YEARS IN THE
LANDSCAPE WITH
LITTLE OR NO
IRRIGATION**

**LARREA TRIDENTATA
CREOSOTE BUSH**

ONLY RAIN FALL



**EXTRA WATER
FROM RUN OFF
FROM THE ROAD**



**EVEN MORE
WATER FROM
RUN OFF FROM
THE ROAD**





DON'T PRUNE IN BALLS OR SQUARES



25 March 2026

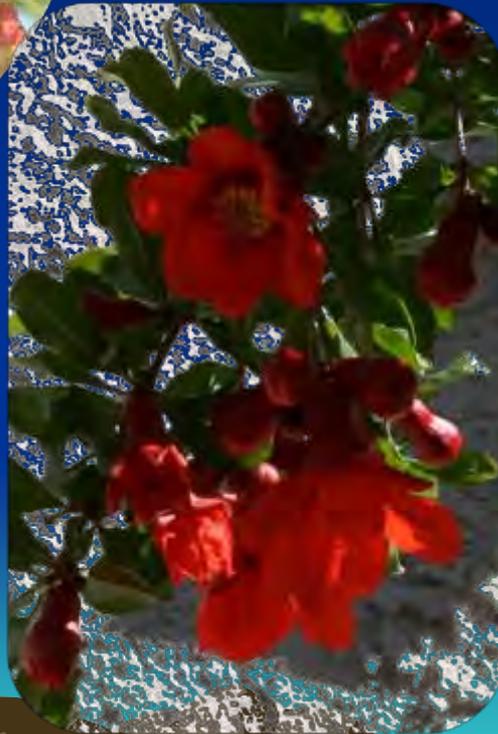
97

St. Therese Mission Catholic Church

How deep do you plant these and what kind of birds do they grow?



PUNICA GRANATUM POMEGRANATE



PUNICA GRANATUM POMEGRANATE IN THE LANDSCAPE







NANNORRHOPS RITCHIANA



9 YEARS FROM A 5 GAL.



NANNORRHOPS RITCHIANA



Phoenix theophrastus





SABAL MINOR



SABAL MEXICANA



3/25/2026

LAKE HAVASU AZ NOT YET HERE BUT SOON



SIMMONDSIA CHINENSIS JOJOBA



VITEX ROTUNDIFOLIA

VINING OR BEACH VITEX



25 March 2026

110

VITEX ROTUNDIFOLIA

VINING OR BEACH VITEX



LANTANA SP





25 March 2026

113

RHODOPHIALA BIBIDA

TEXAS OXBLOOD LILY



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Yuccado.com

RHODOPHIALA BIBIDA

TEXAS OXBLOOD LILY



RHODOPHIALA BIBIDA

TEXAS OXBLOOD LILY



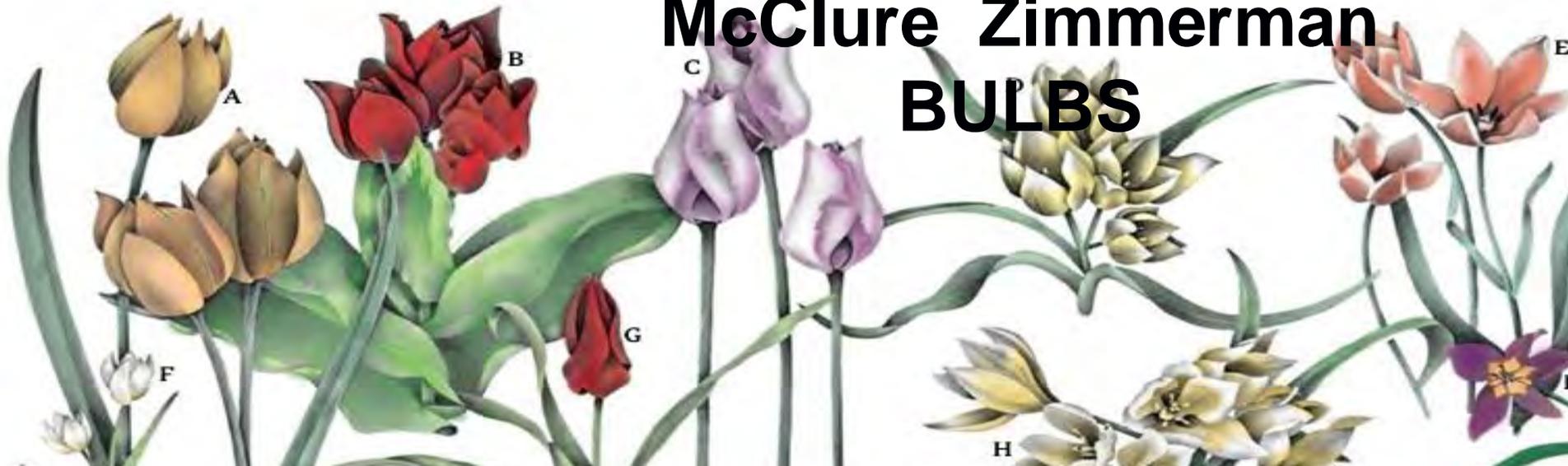
SPECIES TULIPS



25 March



**McClure Zimmerman
BULBS**



Abronia angustifolia

Purple sand verbena



VERBENA RIGIDA SANDPAPER VERBENA



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ZAUCHNERIA CALIFORNICA CALIFORNIA FUCHSIA



25 March 2026

121

ZAUSCHNERIA GARRETTII, Z. CALIFORNICUM, Z. ARIZONICA CALIFORNIA FUCHSIA



(SOME REFERENCES ARE NOW USING
EPILOBIUM CANUM)



ORANGE CARPET





ALLIGATOR JUNIPER

Juniperus deppeana





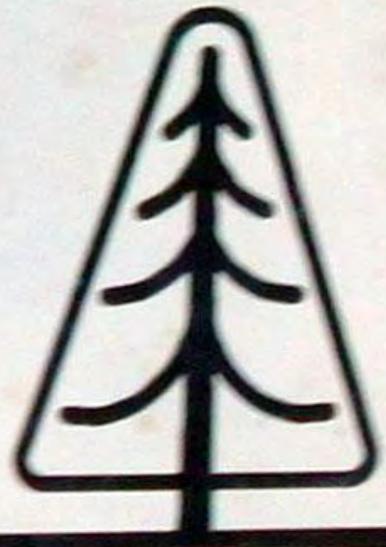




Rocky Mountain
Juniper

Cypress
Family

Juniperus scopulorum



Native of British Columbia, South to
Arizona & Texas





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130

Utah one seed juniper

Juniperus monosperma





Texas Ashe Juniper or Cender *Juniperus ashei*

















wild pistachio tree
science gril

PISTACIA ATLANTICA

Mastic Gum



PISTACIA ATLANTICA

Mastic Gum



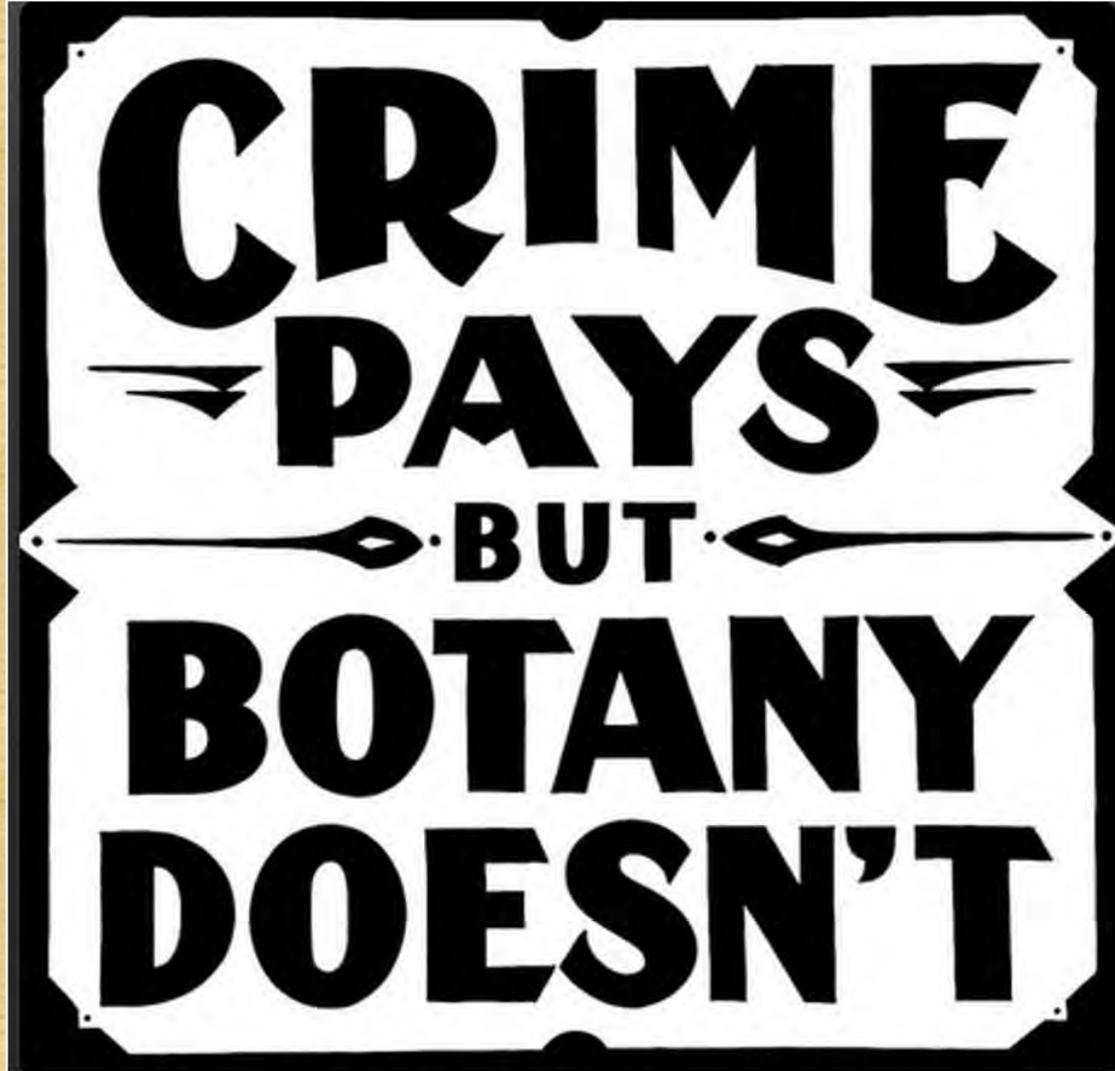
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**when this week literally killed
you but then you remember
you have plants that depend
on you**



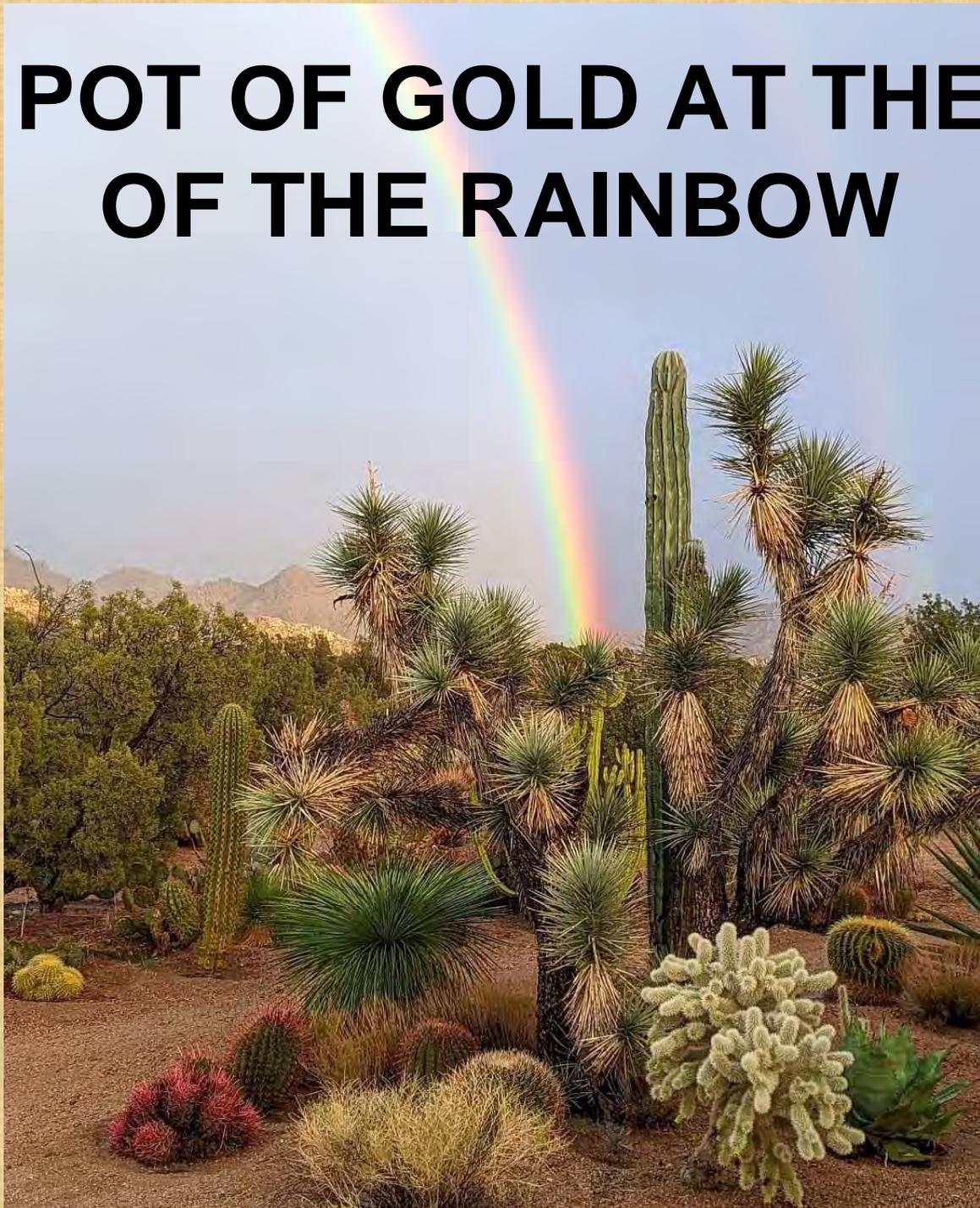
REMEMBER CLIMATE CHANGE IS REAL

- The USDA and Forest Service Ordered to Remove Climate Change References, suppressing Critical Public Data.



Podcast episode:
**Rainwater Harvesting
and Plants as Infrastructure
with Brad Lancaster**

OUR POT OF GOLD AT THE END OF THE RAINBOW



25 March 2026

146

DESERT DENIAL

GET OVER IT



**I'M PRETTY CONFIDENT
MY LAST WORDS WILL BE**



Facebook.com/DiedLaughing

"WELL SHIT, THAT DIDN'T WORK"

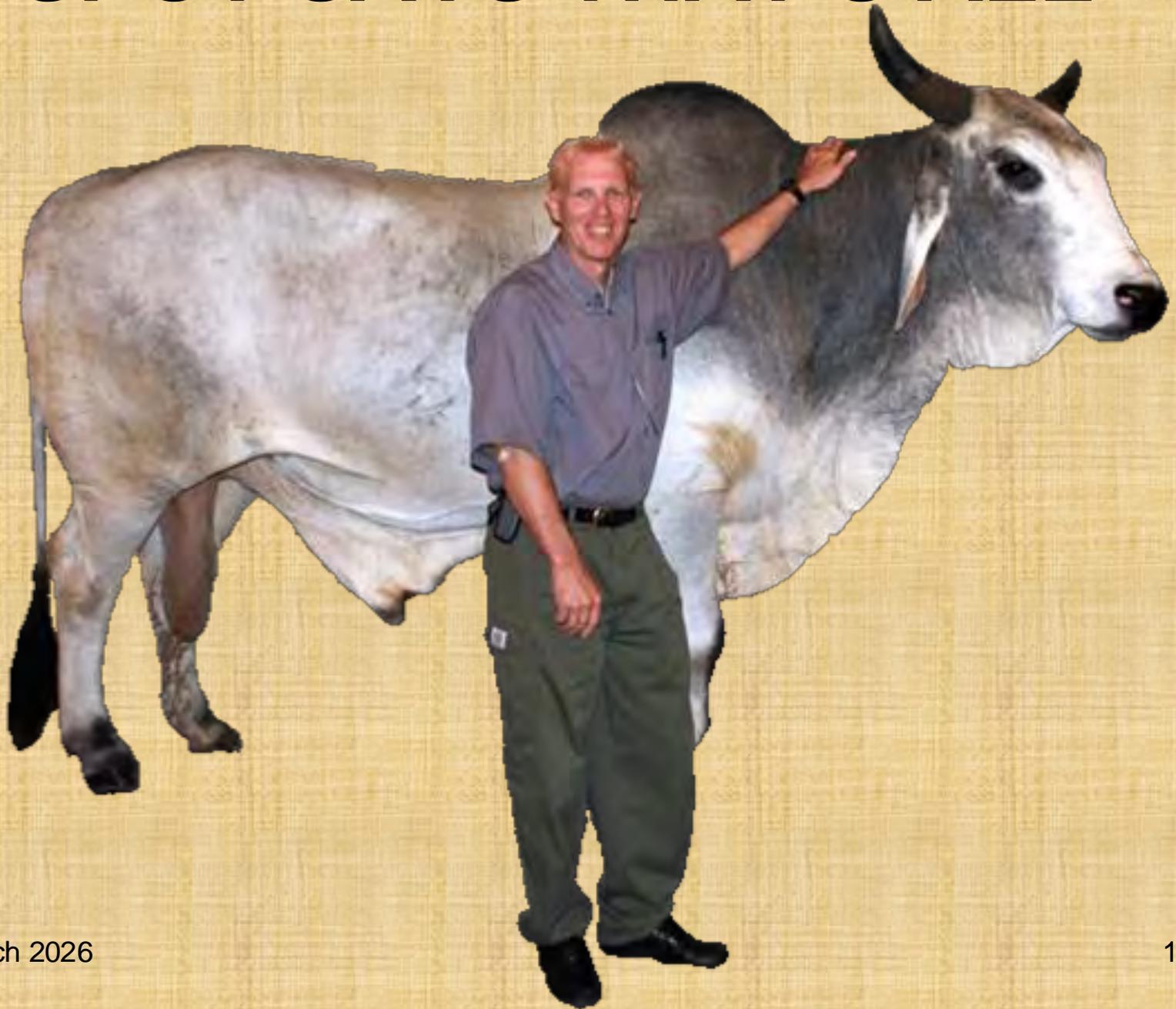
WHERE TO FIND NEW PLANTS

- **TREE OF LIFE NURSERY**
SAN JUAN CAPISTRANO, CA
- **HIGH COUNTRY GARDENS**
SANTA FE, NM
- **ALMOST EDEN**
- **McClure & Zimmerman BULBS**
- **AUSTRALIAN OUTBACK PLANTATION**
TONOPAH, AZ

WHERE TO FIND NEW PLANTS

- **PLANT DELIGHTS NURSERY**
- **MOUNTAIN STATES WHOLESAL
NURSERY, LITCHFIELD PARK, AZ**
(WHOLESALE ONLY BUT GOOD INFORMATION AND YOUR
LOCAL NURSERY CAN ORDER FROM THEM)
- **KW PALMS LAKE ELSINORE CA KW**
Palms & Cycads ~ Kevin Weaver
palms4u2@verizon.net
<http://www.kwpalmsandcycads.com/>

SPOT SAYS THAT'S ALL



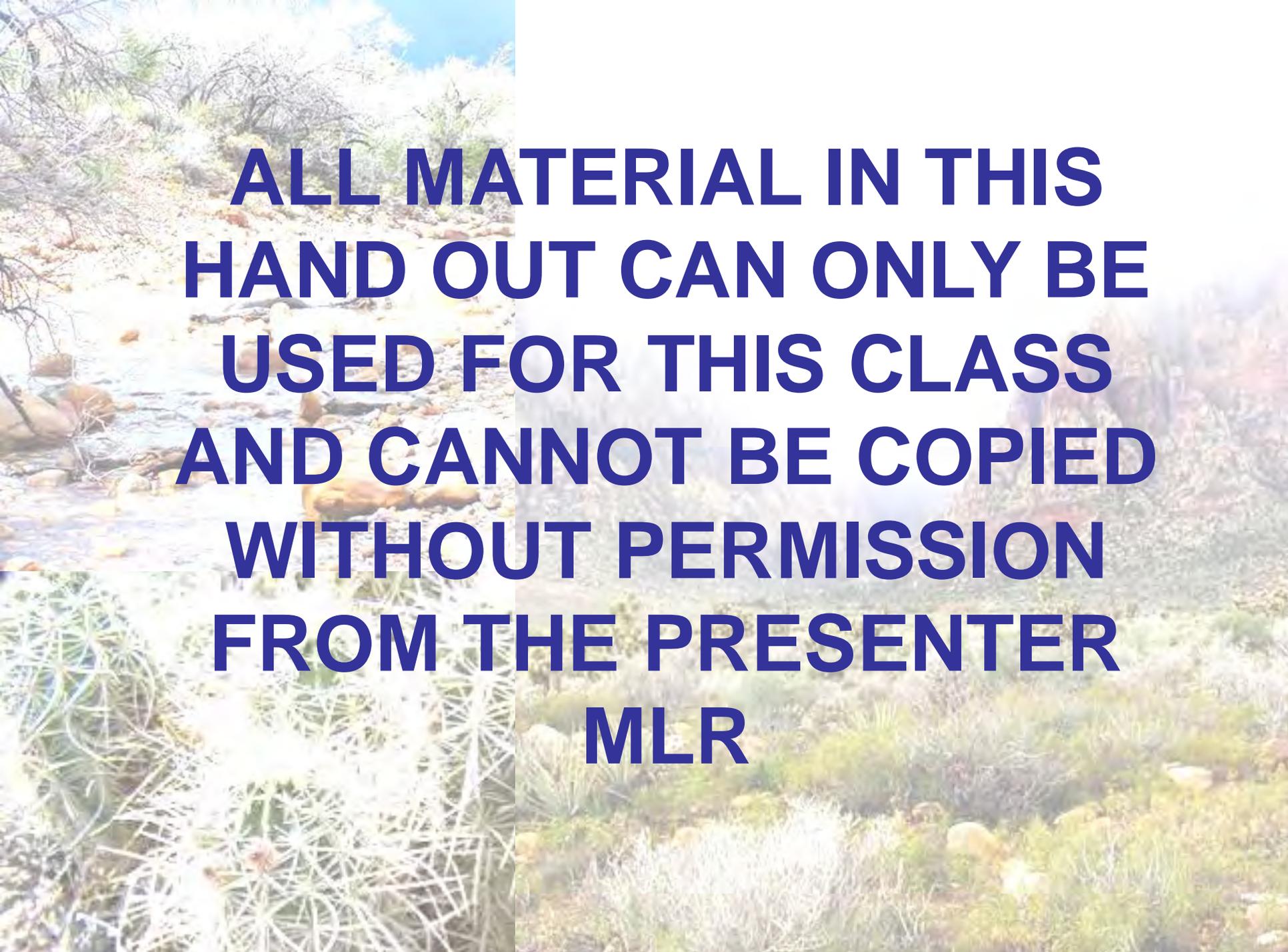
25 March 2026

151



REFERENCES

- **THANK YOU TO THE FOLLOWING FOR PICTURES AND INFORMATION**
- **KATHY KASTA, CALIFORNIA DEPT OF AG./PATHOLOGY**
- **DENNIS SWARTZELL, MOUNTAIN STATES NURSERY LAS VEGAS NV**
- **DENIES McConnell, SNWA LAS VEGAS NV**
- **TUCSON DESERT MUSEUM TUCSON AZ (FROM WEB PAGES)**

A desert landscape featuring a rocky stream in the foreground, surrounded by various cacti and shrubs. The background shows a hazy, mountainous terrain under a clear blue sky. The text is overlaid in the center of the image.

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